

PMA 2 EGRESS

TOOLS AND EQUIPMENT REQUIRED

4" Ratchet Wrench, 1/4" Drive
1/4" to 3/8" Adapter
3/8" to 1/4" Adapter
3/8" Universal Joint
4" Extension, 1/4" Drive
Torque Wrench
7/16" Deepwell Socket
IMV Caps (two) (removed during PMA 1 INGRESS Procedure)
O-rings (two sets, two per set)

AIR DUCT REMOVAL/CONFIGURATION

- | | |
|--------------|---|
| MO13Q | 1. ARLK/TNL FAN A(B) - Off |
| PMA 2
Aft | 2. Disconnect PMA IMV duct extension from starboard IMV flange.

3. With Ratchet and Deepwell Socket, install IMV cap and new O-rings (two per cap) to the starboard IMV flange.
Tighten V-band coupling to 34-36 inlbf (3.8 to 4.1 N•m).

4. Remove V-band coupling and flange saver from port IMV flange.
Stow flange saver in "Return to Houston" Bag.

5. With Ratchet and Deepwell Socket, install IMV cap and new O-rings (two per cap) to the port IMV flange.
Tighten V-band coupling to 34-36 inlbf (3.8 to 4.1 N•m). |
| PMA 2
Fwd | 6. Disconnect Shuttle/Station Air Duct Assembly from PMA 2 hard duct.

7. Retrieve cap from back of Closeout Panel frame near Node bulkhead and install cap to PMA 2 hard duct.
Secure cap with V-band coupling.

8. Disconnect Shuttle/Station Air Duct Assembly from external A/L air inlet flex duct.

9. Stow Shuttle/Station Air Duct Assembly in PMA 2 with straight coupler and snap straps.

10. Connect external A/L air inlet flex duct to halo cross air duct with T-handle clamp. |
| MO13Q | 11. ARLK/TNL FAN A(B) → On
√Airflow at halo |

12. Insert ODS air duct extension into vestibule.
13. ✓ All equipment bags and returning items removed from PMA 2.

APAS HATCH CLOSURE

APAS
Hatch

14. Egress PMA.
Inspect APAS Hatch Seals for debris.
Remove all foreign objects.
Clean Hatch Seal.
Close APAS Hatch.
Select 'WORKING' (WORKING) torque setting on hatch tool.
Insert tool in hatch socket.
Rotate tool 3-4 turns in direction of 'CLOSE' (CLOSE) arrow until tool clicks.

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* If tool prematurely slips or does not engage: *
*   Select 'EMERGENCY' (EMERGENCY) setting *
*   on hatch tool. *
*   Reattempt to open Hatch. *
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15. ✓ APAS EQUAL VLV - Op
16. Remove Target Base Plate Cover and Thermal Liner Assembly from Target Base Plate.
Temporarily stow.
17. Remove standoff cross from Bag.
Temporarily stow Bag.

NOTE

Ensure key on standoff cross shaft is aligned with key-way on mating receptacle, and insert shaft until collar bottoms out on receptacle surface.

18. Insert standoff cross into keyed receptacle on Target Base Plate until shaft collar bottoms out.

NOTE

When all mating parts are correctly assembled, the painted black stripe on standoff cross shaft should be visible above hexagonal cap nut (not recessed).

19. Align and mate threaded hexagonal cap nut into Target Base Plate receptacle, hand tighten hexagonal cap nut onto threaded receptacle until it is firmly mated with jam nut. While maintaining a counter-clockwise torque on jam nut, tighten hexagonal cap nut snugly (10" Adjustable Wrench and 1-1/2" Open-end Wrench).

20. Stow tools, Standoff Cross Bag, Target Base Plate Cover, and Thermal Liner Assembly.
21. Install crosshairs.
22. For each docking light, remove the locking pin, rotate docking light perpendicular to ODS shell, and reinstall the locking pin.

ODS HATCH CLOSURE

23. Remove ODS air duct extension from vestibule.
24. Close ODS Hatch per decal.
25. √Equal vlv (two) - Off, capped

ODS
Hatch